

Appl. No.: 10/783,607
Docket No.: 2502187-991300
Response to Office Action of May 18, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20: Cancelled.

21. (Currently Amended) A dermatologic treatment apparatus of claim 1, further that is cordless and sufficiently compact as to be hand-held, comprising:
a self-contained housing configured for gripping by a person's hand for cordless manipulation in a dermatologic treatment procedure;
a light source comprising one or more diode laser bars within the housing;
an electrical circuit within the housing comprising one or more batteries and an electronic control circuit for energizing the light source to produce output light pulses;
a light path within the housing including an aperture through which the output light pulses are propagated out of the housing having properties that provide efficacious treatment;
and
a heatsink for contacting a region of an epidermis of a person undergoing treatment, having one or more thermal characteristics that serve to remove heat from the epidermis, and wherein the temperature of the heatsink is maintained below a normal skin temperature, wherein a normal skin temperature is a temperature of the skin when not being treated with the device;
wherein the cordless apparatus has a total weight of no more than one kilogram, and
wherein the cordless apparatus occupies no more than 1500 cm³ of volume.

22. (Original) The apparatus of claim 21, wherein the heatsink comprises a sapphire output window.

Claims 23-39: Cancelled.

Appl. No.: 10/783,607
Docket No.: 2502187-991300
Response to Office Action of May 18, 2006

40. (Currently Amended) A dermatologic hair-regrowth-inhibiting [The] apparatus [of claim 28, further] that is cordless and sufficiently compact as to be hand-held, comprising:
a self-contained housing configured for gripping by a person's hand for cordless manipulation in a hair-regrowth-inhibiting procedure;
a light source comprising one or more diode laser bars within the housing;
a direct drive electrical circuit within the housing comprising one or more batteries for energizing the light source to produce output light pulses;
a light path within the housing including an aperture through which the output light pulses are propagated out of the housing having properties sufficient for at least temporary hair-regrowth inhibition; and
a heatsink for contacting a region of an epidermis of a person undergoing treatment, having one or more thermal characteristics that serve to remove heat from the epidermis, and wherein the temperature of the heatsink is maintained below a normal skin temperature, wherein a normal skin temperature is a temperature of the skin when not being treated with the device.

41. (Original) The apparatus of claim 40, wherein the heatsink comprises a sapphire output window.

Claims 42-57: Cancelled.

58. (Currently Amended) A dermatologic hair-regrowth-inhibiting [The] apparatus [of claim 49, further] that is cordless and sufficiently compact as to be hand-held, comprising:
a self-contained housing configured for gripping with a person's hand for cordless manipulation in a hair-regrowth-inhibiting procedure;
a light source within the housing containing one or more diode lasers;
an electrical circuit within the housing comprising one or more batteries and an electronic control circuit for energizing the light source to produce output light pulses;

Appl. No.: 10/783,607
Docket No.: 2502187-991300
Response to Office Action of May 18, 2006

a light path within the housing including an aperture through which the output light pulses are propagated out of the housing; and wherein

a peak power of a light pulse emitted by the apparatus is between 10 watts and 120 watts;

a pulse duration of a light pulse emitted by the apparatus is between 10 milliseconds and 1 second;

an output fluence of a light pulse emitted by the apparatus is between 4 J/cm² and 100 J/cm²;

a majority of the energy of a light pulse emitted by the apparatus is contained within a spectral band of 700 nm to 1100 nm; and

a heatsink for contacting a region of an epidermis of a person undergoing treatment, having one or more thermal characteristics that serve to remove heat from the epidermis, and wherein the temperature of the heatsink is maintained below a normal skin temperature, wherein a normal skin temperature is an average temperature of the skin when not being treated with the device.

59. (Original) The apparatus of claim 58, wherein the heatsink comprises a sapphire output window.

Claims 60-70: Cancelled.

71. (Currently Amended) A dermatologic hair-regrowth-inhibiting [The] apparatus [of claim 66, further] that is cordless and sufficiently compact as to be hand-held, comprising:
a self-contained housing configured for gripping by a person's hand for cordless manipulation in a hair-regrowth-inhibiting procedure;
a light source within the housing comprising one or more diode lasers;

Appl. No.: 10/783,607
Docket No.: 2502187-991300
Response to Office Action of May 18, 2006

a direct drive electrical circuit within the housing comprising one or more batteries for energizing the light source to produce output light pulses;

a light path within the housing including an aperture through which the output light pulses are propagated out of the housing; and wherein

a peak power of a light pulse emitted by the apparatus is between 10 watts and 120 watts;

a pulse duration of a light pulse emitted by the apparatus is between 10 milliseconds and 1 second;

an output fluence of a light pulse emitted by the apparatus is between 4 J/cm² and 100 J/cm²;

a majority of the energy of a light pulse emitted by the apparatus is contained within a spectral band of 700 nm to 1100 nm;

the cordless apparatus has a total weight of no more than one kilogram;

the cordless apparatus occupies no more than 1500 cm³ of volume;

light pulses are emitted at a pulse repetition frequency between 0.1 Hz and 2 Hz;

and

a light pulse emitted at the aperture has a spot size between 0.25 cm² and 5 cm²;

and

a heatsink for contacting a region of an epidermis of a person undergoing treatment, having one or more thermal characteristics that serve to remove heat from the epidermis, and wherein the temperature of the heatsink is maintained below a normal skin temperature, wherein a normal skin temperature is a temperature of the skin when not being treated with the device.

72. (Original) The apparatus of claim 71, wherein the heatsink comprises a sapphire output window.

Claims 73-89: Cancelled.